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**From:** jimfrazier99@gmail.com [jimfrazier99@gmail.com]  
**on behalf of** Jim Frazier [jff2@psu.edu]  
**Sent:** 3/10/2014 3:30:48 PM  
**To:** David Fischer [david.fischer@bayer.com]  
**CC:** Jim Frazier [jfrazier@psu.edu]; Moriarty, Thomas [Moriarty.Thomas@epa.gov]  
**Subject:** Re: Revised draft - Chapter 8 conclusions  
**Attachments:** Conclusions for chapter 8 JFRAZIER2.doc; Hazard -Lab Chapter draft 4-22-11JF copy.doc; Hazard-Lab for Pellston Conference copy.ppt

Dear Dave and Tom,

The modified Chapter 8 conclusions paragraph that I am supporting includes the same topics that were presented at the Pellston conference for our lab group and presented at the SEATAC conference in Nov, 2011 and in the first draft of the chapter. I have attached the powerpoint slides from the SEATAC meeting for your reference. The conclusion section for chapter 8 should reflect these same topics which I have attempted to include in the modified draft below. I am certainly open to your suggested wording changes, but the topics listed should be included for consistency with our group discussion and with previous efforts to communicate these.

- Harmonizing of Tier1 tests
  1. Separate Tier 1 for sprayed vs. seed/soil chemicals
  2. Adult contact LD 50 for AI's and Formulaions in parallel

- New candidate Tier 1 & 2 tests for adoption
  1. Tier 1 Sprayed for Adults given
  2. Tier 1 Seed/Soil Adults and Larvae given
  3. Tier 1 Seed/Soil Adults given
- New candidate Tier 1 & 2 Tests for Adoption
  4. Larval in vitro chronic method
  5. Chronic adult test

6. Recommended new Tier 2 tests for adults and larvae using above

7. Recommended higher tier tests

- Sub-lethal tests requiring further development through high priority research

8. Contact for adults of non-Apis bees

9. Chronic adult and larval feeding on non-Apis bees

10. Sub-lethal tests on behavior and development for non-Apis bees

11. Candidate tests for protocol development through high priority research on Apis

I think the modified conclusions paragraph that you included does not adequately reflect these points, so I give you yet another version that I think is closer to including the above key points, yet is short in length.

Please advise on your edited version. I am glad to know that the final versions will be circulated among the participants one more time for approval in principal.

Regards,

Jim

On Fri, Mar 7, 2014 at 6:08 PM, David Fischer <[david.fischer@bayer.com](mailto:david.fischer@bayer.com)> wrote:

Jim,

Take a look at the attached which Tom and I have edited from your original draft. Let us know if this is going to work, or make additional edits, etc.

We talked to the publisher and we can drop this in to replace the current version. Would like to get this done on Monday, then we can get a new pdf proof from them and circulate it to the full list of coauthors for their review and concurrence.

Have a great weekend!

Dave

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**David L. Fischer, Ph.D.**

Environmental Toxicology and Risk Assessment



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